1 EXCEPTION HANDLING COMPILER APPARATUS, PROGRAM, RECORDING

2 MEDIUM, AND COMPILING METHOD

3 ABSTRACT

4 Compiler apparatus, methods and systems for optimizing exception handling in a

5 program. An example apparatus comprises an exception handler detection section for

6 detecting, from exception handlers that catch exceptions thrown in the program, a

7 multiple-catching exception handler that catches a plurality of different exceptions and

8 rethrow the caught exceptions; an exception selection section for selecting a set of

9 exceptions that are to be shifted to common processing through rethrow of the exception

10 by the multiple-catching exception handler from among the plurality of exceptions caught

11 by the detected multiple-catching exception handler; and an exception handler throw

12 section for throwing a clone exception handler that catches the set of exceptions selected

13 by the exception selection section instead of the multiple-catching exception handler and

14 shifting it to common processing.

15 [Selected Drawing] Figure 1